INTERNATIONAL SEARCH REPORT

mei Application No PCT7FR2005/000646

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C21D8/02 C22C38/22 C22C38/24 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) C21D C22C Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, CHEM ABS Data, WPI Data, INSPEC C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages 1-6 EP 0 288 064 A (NIPPON STEEL CORPORATION) X 26 October 1988 (1988-10-26) claims 1-5; tables 1-3 7-10 A 7-10 PATENT ABSTRACTS OF JAPAN X vol. 007, no. 022 (C-148), 28 January 1983 (1983-01-28) & JP 57 177927 A (NITSUSHIN SEIKOU KK), 1 November 1982 (1982-11-01) abstract 1,2,4,5, US 6 669 789 B1 (EDELMAN DANIEL GEOFFREY X 10 ET AL) 30 December 2003 (2003-12-30) 3,6 claims 1-10; tables 1-7 US 3 539 404 A (ANTHONY F. DERETANA) 10 November 1970 (1970-11-10) 1-10 the whole document Patent family members are listed in annex. Further documents are listed in the confinuation of box C. Special categories of olded documents: "I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or efter the international "X" document of particular relevance; the claimed invention Mino date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority chalm(s) or which is cited to establish the publication date of enother distion or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. Or document referring to an oral disclosure, use, exhibition of document published prior to the international filing date but later than the priority date claimed *A* document member of the same palent ternity Date of the actual completion of the international search Date of mailing of the international search report 18/10/2005 10 October 2005 Authorized afficer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentham 2 NL - 2280 HV RBSW8k Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Form PGT/ISA/210 (second sheet) (January 2004)

Chebeleu. A

INTERNATIONAL SEARCH REPORT

PCT/FR2005/000646

C-(Continut	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		Colleges on white the		
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.		
A	US 4 534 805 A (JESSEMAN ET AL) 13 August 1985 (1985-08-13) claims 1-7		1-10		
A .	ES 2 130 065 A1 (GSB GRUPO SIDERURGICO, S.A; GSB GRUPO SIDERURGICO VASCO, S.A) 16 June 1999 (1999-06-16) claims 1-3		1-10		
Ä	NO 99/05337 A (USX ENGINEERS AND CONSULTANTS, INC) 4 February 1999 (1999-02-04) claims 1-10		1-10		
A	US 4 988 393 A (YAMABA ET AL) 29 January 1991 (1991-01-29) claims 1-11		1-10		
	<u> </u>				
		•			
		•			
		•			
		•			

Form PCT/ISA/210 (continuation of second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

enformation on patent family members

PCT/FR2005/000646

Patent document dited in search report		Publication date		Patent family member(6)		Publication date
EP 0288054	A	26-10-1988	DE		D1	16-09-1993
			DE		T2	02-12-1993 14-01-1992
			KR	9200523 4851052	B1	25-07-1989
			US	4651032	<u>~</u>	25-07-1969
JP 57177927	Α	01-11-1982	JP		C	27-02-1989
			JP	63030971	B	21-06-1988
US 6669789	B1	30-12-2003	NONE			
US 3539404	Α	10-11-1970	NONE			
US 4534805	A	13-08-1985	NONE			
ES 2130065	A 1	16-06-1999	NONE			
WO 9905337	A	04-02-1999	AU	712066	B2	28-10-1999
			AU-	8513898	Α	16-02-1999
		•	BR	9808883	A	03-10-2000
		,	CA	2273267	A1	04-02-1999
		•	EP	1007752	<u>A</u> 1	14-06-2000
		•	JP	2000512346	Ţ	19-09-2000
•		•	TW	426743	В	21-03-2001 02-05-2000
			US	6056833		02-05-2000
		·	ZA	9806550	A	02-05-1333
US 4988393	A	29-01-1991	AU	558845	B2	12-02-1987
			AU	4377285	Α .	02-01-1986
			CA	1246969	A1	20-12-1988
		•	DE	3579376		04-10-1990
	•	•	EP	0165774	A2	27-12-1985

Form PCT/ISA/210 (palent family annex) (January 2004)